ALCON CTL TESTING PRIVATE LIMITED.

Ref: ACTPL/RDM 160929//2017 Date: 12/05/2017

PHYSICAL TEST REPORT ON STEEL BARS

Name of Client : **Sri. A. Chennareddy, Bangalore.**
Project* : Comprehensive Development of Roads & Drains in Ward No.01& 02 in Yelahanka Sub Division
Description of Test : STEEL
Sample Received on : 10/05/2017
Source of Sample : Supplied by Customer
Nature of Sample : Reinforcement steel-10mm & 12mm.
Technical Reference : Tensile IS: 1786-2008 & IS: 1608-1995 (Reaffirmed-2000)
Bend & Rebend IS: 1786-2008 & IS: 1599-1985 (Reaffirmed-2000)
Grade & Make of Steel : Fe-500 & Indus TMT

TENSILE TEST:

Dia (mm)	10	12	16	Limits as per IS: 1786-2008, Gr. Fe 500
Weight/ Unit length (kg/m)	0.580	0.850	1.616	10mm- 0.574 Min 12mm- 0.844 Min 16mm- 1.501Min
Yield Stress (N/mm^2)	572.58	578.12	507.56	500 Min
Tensile Strength (N/mm^2)	686.68	697.75	592.16	8% More than actual 0.2% proof stress but not less than 545 (N/mm^2)
% Elongation (on 5.65 $\sqrt{}$ AG.L)	20.20	23.02	18.7	12.0 Min

A.E

ALCON CTL TESTING PRIVATE LIMITED BANGALORE

Ground Floor, #35, 4th Main, 4th Stage, Next to Trinity Motors. Indl. Town, Basaveshwar Nagar, Bangalore – 560 079, Karnataka, India.
Phone: 91-08-23504236 Email: mail@alconctl.com

Ref: ACTPL/RDM 160929//2016

BEND TEST:

Sl. No.	*Dia (mm)*	*Mandrel diameter*	*Observations*
1	10	4 dia	No cracks observed. Passes the test
2	12	4 dia	No cracks observed. Passes the test
3	16	4 dia	No cracks observed. Passes the test

REBEND TEST:

Sl. No.	*Dia (mm)*	*Mandrel diameter*	*Observations*
1	10	5 dia	No cracks observed. Passes the test
2	12	7 dia	No cracks observed. Passes the test
3	16	7 dia	No cracks observed. Passes the test

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For ALCON CTL TESTING PVT. LTD.

Ashwini K, BE, M.Tech
Quality Manager

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ALCON CTL TESTING PRIVATE LIMITED.

Ref: ACTPL/RDM 160929/2017

Date: 12/05/2017

TEST REPORT

Name of Client	: Sri. A. Chennareddy, Bangalore.
Project*	: Comprehensive Development of Roads & Drains in Ward No.01 & 02 Yelahanka Sub Division
Customer's reference	: RDM 160929
Description of Test	: Physical Properties of Cement
Period of test	: 10/05/2017 to 12/05/2017
Sample Received on	: 10/05/2017
Condition of the Sample at the time of receiving	: Dry
Samples Supplied to Lab by	: Sri. A. Chennareddy

Description	Cement
Weight of empty flask, W1 g =	100.00
Weight of empty flask + Cement, W2 g =	169.00
Weight of flask + Cement + Kerosene, W3 g =	225.00
Weight of flask + Kerosene W4g =	180.00
Specific Gravity = (W2-W1)/((W2-W1)- (W3-W4)) X 0.79	3.00

Sl. No.	Description	Permissible Limits
1	Specific Gravity	3.15

Remarks:
Satisfy the Limits ☑
Does not satisfy the limits

** As Furnished by the Customer*

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ALCON CTL TESTING PRIVATE LIMITED.

Ref: ACTPL/RDM 160929/2017 Date: 12/05/2017

TEST REPORT

Name of Client	: **Sri. A. Chennareddy, Bangalore.**
Project*	: Comprehensive Development of Roads & Drains in Ward No.01 & 02 Yelahanka Sub Division
Customer's reference	: RDM 160929
Description of Test	: Physical Properties of Cement
Period of test	: 10/05/2017 to 12/05/2017
Sample Received on	: 10/05/2017
Condition of the Sample at the time of receiving	: Dry
Samples Supplied to Lab by	: **Sri. A. Chennareddy.**

Description	Cement
Weight of empty flask, W1 g =	100.00
Weight of empty flask + Cement, W2 g =	169.00
Weight of flask + Cement + Kerosene, W3 g =	225.00
Weight of flask + Kerosene W4g =	180.00
Specific Gravity = (W2-W1)/((W2-W1)- (W3-W4)) X 0.79	3.00

Sl No.	Description	Permissible Limits
1	Specific Gravity	3.15

Remarks:
Satisfy the Limits ☑
Does not satisfy the limits

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Ref: ACTPL/RDM 160929/2016 Date: 12/05/2017

TEST REPORT

Name of Client : **Sri. A.Chennareddy, Bangalore.**
Project* : Comprehensive Development of Roads & Drains in Ward No.01 & 02 in Yelahanka Sub Division
Customer's reference : RDM 160929
Description of Test : Physical Properties of Cement
Period of test : 10/05/2017 to 12/05/2017
Sample Received on : 10/05/2017
Condition of the Sample at the time of receiving : Dry
Samples Supplied to Lab by : **Sri. A. Chennareddy**

Test on Cement:

Sl No.	Test to be Conducted	Results	IS : 8112-1980 Stipulation
1	Normal Consistency	29.8 %	Not Specified
2	Initial Setting Time	164 mins	Shall not be less than 30 minutes
3	Final Setting Time	239 mins	Shall not be more than 600 minutes

☑ *Satisfactory*
☐ *Non Satisfactory*

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ALCON CTL TESTING PRIVATE LIMITED.

Ref: ACTPL/RDM 160929/2016 **Date: 12/05/2017**

TEST REPORT

Name of Client	: **Sri.A.Chennareddy, Bangalore.**
Project*	: Comprehensive Development of Roads & Drains in Ward No. 01& 02 in Yelahanka Sub Division
Customer's reference	: RDM 160929
Description of Test	: Physical Properties of M-Sand
Period of test	: 10/05/2017 to 12/05/2017
Sample Received on	: 10/05/2017
Condition of the Sample at the time of receiving	: Dry
Samples Supplied to Lab by	: **Sri. A. Chennareddy**

Description	Dust
Weight of empty bottle with stopper, W1 g =	499.00
Weight of bottle + soil sample with stopper, W2 g =	998.00
Weight of bottle + sample + water with sample W3 g =	1499.00
Weight of bottle + water with stopper W4g =	1189.00
Specific Gravity = (W2-W1)/((W2-W1)- (W3-W4))	2.64

Sl. No.	Description	Permissible Limits
1	Specific Gravity	2.5 to 3.0

Remarks:

Satisfy the Limits ☑

Does not satisfy the limits

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ALCON CTL TESTING PRIVATE LIMITED.

Ref: ACTPL/RDM 160929/2016

Date: 12/05/2017

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bangalore.**
Project* : Comprehensive Development of Roads & Drains in Ward No. 01& 02 in Yelahanka Sub Division.
Indent No. : 21742
Customer's reference : RDM 160929
Description of Test : Physical Properties of Coarse Aggregate
Period of test : 10/05/2017 to 12/05/2017
Sample Received on : 10/05/2017
Condition of the Sample at the time of receiving : Dry
Samples Supplied to Lab by : **Sri. A. Chennareddy**

Description	40mm
Weight of Saturated Aggregate suspended in water with basket, W1 g =	2985
Weight of basket suspended in water, W2 g =	1785
Weight of Saturated Aggregate in water , Ws g = (W1-W2) =	1202
Weight of Saturated surface dry Aggregate in air W3 g =	1978
Weight of oven dried Aggregate W4 g =	1972
Weight of water equal to the volume of aggregate, (W3-Ws) g =	770
Specific Gravity, (W4/(W3-Ws) =	**2.53**
Water Absorption, ((W3-W4)/W4) * 100 =	**0.30**

Sl. No.	Description	Permissible Limits
1	Specific Gravity	2.5 to 3.0
2	Water Absorption	Max 2%

Remarks:

Satisfy the Limits ☑
Does not satisfy the limits

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ALCON CTL TESTING PRIVATE LIMITED.

Ref: ACTPL/RDM 160929/2016 **Date: 12/05/2017**

TEST REPORT

Name of Client	: **Sri. A. Chennareddy, Bangalore.**
Project*	: Comprehensive Development of Roads & Drains in Ward No. 01& 02 in Yelahanka Sub Division.
Customer's reference	: RDM 160929
Description of Test	: Physical Properties of Cement
Period of test	: 10/05/2017 to 12/05/2017
Sample Received on	: 10/05/2017
Condition of the Sample at the time of receiving	: Dry
Samples Supplied to Lab by	: **Sri. A. Chennareddy**

Test on Cement:

Sl No.	Test to be Conducted	Results	IS : 8112-1980 Stipulation
1	Normal Consistency	29.8 %	Not Specified
2	Initial Setting Time	164 mins	Shall not be less than 30 minutes
3	Final Setting Time	239 mins	Shall not be more than 600 minutes

☑ *Satisfactory*
☐ *Non Satisfactory*

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Ref: ACTPL/RDM 160929/2016 **Date: 12/05/2017**

TEST REPORT

Name of Client	: **Sri. A. Chennareddy, Bangalore.**
Project*	: Comprehensive Development of Roads & Drains in Ward No. 01& 02 in Yelahanka Sub Division.
Customer's reference	: RDM 160929
Description of Test	: Physical Properties of M-Sand
Period of test	: 10/05/2017 to 12/05/2017
Sample Received on	: 10/05/2017
Condition of the Sample at the time of receiving	: Dry
Samples Supplied to Lab by	: **Sri. A. Chennareddy**

Description	Dust
Weight of empty bottle with stopper, W1 g =	499.00
Weight of bottle + soil sample with stopper, W2 g =	998.00
Weight of bottle + sample + water with sample W3 g =	1499.00
Weight of bottle + water with stopper W4g =	1189.00
Specific Gravity = (W2-W1)/((W2-W1)- (W3-W4))	2.64

Sl. No.	Description	Permissible Limits
1	Specific Gravity	2.5 to 3.0

Remarks:
Satisfy the Limits ☑
Does not satisfy the limits

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ALCON CTL TESTING PRIVATE LIMITED.

Ref: ACTPL/RDM 161209/2016 **Date: 10/06/2017**

TEST REPORT

Name of Client : **Sri. A. Chennareddy, Bangalore.**
Project* : Comprehensive Development of Roads & Drains in Ward No. 01& 02 Yelahanka Sub Division
Customer's reference : RDM 161209
Description of Test : Gradation for WMM.
Sample Location : At Site
Total Weight of Sample : 12500grams

Sieve size	Weight Retained	Cumulative retained	% retained	% passing	Limits
53	0	0	0.00	100.0	100
45	498	498	3.91	96.09	95-100
22.4	4322	4835	38.00	62.00	60-80
11.2	2264	7111	55.89	44.11	40-60
4.75	1976	9087	71.42	28.58	25-40
2.36	1368	10455	82.17	17.83	15-30
0.6	1204	11500	90.38	9.62	8-22
0.075	700	12200	95.88	4.12	0-8

Satisfy the Limits ☑
Does not satisfy the limits
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ALCON CTL TESTING PRIVATE LIMITED.

Ref: ACTPL/RDM 161209/2016

Date: 10/06/2017

TEST REPORT

Name of Client : **Sri.A.Chennareddy, Bangalore.**
Project* : Comprehensive Development of Roads & Drains in Ward No.01&02 Yelahanka Sub Division
Customer's reference : RDM – 160929
Description of Test : Sand Replacement for WMM
Sample Location : At Site

	Observations and Calculations	Test number		
		1	2	3
1	Weight of moist soil from excavated hole = W	2350	2520	2400
2	Weight of Cylinder + Sand before pouring (gm), w1 , g	6825	6783	6750
3	Weight of sand in cone w2 (gm)	335	335	335
4	Wt. of cylinder and sand after filling calibrating container = w4 , g	5392	5465	5436
5	Wt. of sand in the excavated hole =wb , g=(w1-w4 – w2), g	1254	1297	1253
6	Volume of sand in the hole, V=wb / Ys , cm3	928.89	960.74	928.15
7	In –situ bulk density of wet excavated soil, Y= w/V, G/cm3	2.53	2.62	2.59
8	Weight of soil for Moisture Content determinations			
9	Wet Weight =	63.83	62.86	63.25
10	Dry Weight =	59.96	58.23	59.65
11	Moisture Content =	5.71	6.95	5.32
12	Field Dry Density (g/cc)	2.39	2.44	2.45

Satisfy the Limits ☑
Does not satisfy the limits

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ALCON CTL TESTING PRIVATE LIMITED.

Ref: ACTPL/RDM 160929/2016

Date: 17/06/2017

TEST REPORT

Name of Client : Sri.A.Chennareddy, Bangalore.
Project* : Comprehensive Development of Roads & Drains in Ward No.01&02 Yelahanka Sub Division
Customer's reference : RDM – 160929
Grade of Concrete : M-20 Grade
Description of Test : Compressive strength of cubes.
Sample Received on : 21/05/2017

Sl. No	Location	Laboratory Identification mark	Date of Casting	Date of Testing	Age of Specimen	Dimension of Specimen in mm (L x B x D) in mm	Area of Specimen in mm²	Crushing Load (KN)	Compression Strength (N/mm²)	Avg. Compressive Strength (N/mm²)
1	Culvert	160929/A	20/05/2017	27/05/2017	7 Days	(150X150X148)	22500	333	14.80	14.71
2	Culvert	160929/B	20/05/2017	27/05/2017	7 Days	(150X150X149)	22500	341	15.16	
3	Culvert	160929/C	20/05/2017	27/05/2017	7 Days	(150X150X149)	22500	319	14.18	
4	Culvert	160929/D	20/05/2017	17/06/2017	28 Days	(150X150X148)	22500	462	20.53	20.22
5	Culvert	160929/E	20/05/2017	17/06/2017	28 Days	(150X150X149)	22500	457	20.31	
6	Culvert	160929/F	20/05/2017	17/06/2017	28 Days	(150X150X149)	22500	446	19.82	

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ALCON CTL TESTING PRIVATE LIMITED.

Ref: ACTPL/RDM 160929/2016

Date: 19/06/2017

TEST REPORT

Name of Client : Sri. A. Chennareddy, Bangalore.
Project* : Comprehensive Development of Roads & Drains in Ward No. 01& 02 Yelahanka Sub Division
Customer's reference : RDM – 160929
Grade of Concrete : M-20 Grade
Description of Test : Compressive strength of cubes.
Sample Received on : 23/05/2017

SL. No	Location	Laboratory Identification mark	Date of Casting	Date of Testing	Age of Specimen	Dimension of Specimen in mm (L x B x D) in mm	Area of Specimen in mm^2	Crushing Load (KN)	Compression Strength (N/mm^2)	Avg. Compressive Strength (N/mm^2)
1	Road	160929/A	22/05/2017	29/06/2017	7 Days	(150X150X148)	22500	318	14.13	13.95
2	Road	160929/B	22/05/2017	29/06/2017	7 Days	(150X150X149)	22500	325	14.4	
3	Road	160929/C	22/05/2017	29/06/2017	7 Days	(150X150X149)	22500	300	13.33	
4	Road	160929/D	22/05/2017	19/06/2017	28 Days	(150X150X148)	22500	498	22.13	20.88
5	Road	160929/E	22/05/2017	19/06/2017	28 Days	(150X150X149)	22500	445	19.77	
6	Road	160929/F	22/05/2017	19/06/2017	28 Days	(150X150X149)	22500	467	20.75	

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ALCON CTL TESTING PRIVATE LIMITED.

Ref: ACTPL/RDM 160929/2016

Date: 23/06/2017

TEST REPORT

Name of Client : **Sri.A.Chennareddy, Bangalore.**
Project* : Comprehensive Development of Roads & Drains in Ward No.01&02 Yelahanka Sub Division
Customer's reference : RDM – 160929
Grade of Concrete : M-20 Grade
Description of Test : Compressive strength of cubes.
Sample Received on : 27/05/2017

SL. No	Location	Laboratory Identification mark	Date of Casting	Date of Testing	Age of Specimen	Dimension of Specimen in mm (L x B x D) in mm	Area of Specimen in mm²	Crushing Load (KN)	Compression Strength (N/mm²)	Avg. Compressive Strength (N/mm²)
1	Drain	160929/A	26/05/2017	02/06/2017	7 Days	(150X150X148)	22500	318	14.13	13.95
2	Drain	160929/B	26/05/2017	02/06/2017	7 Days	(150X150X149)	22500	325	14.4	
3	Drain	160929/C	26/05/2017	02/06/2017	7 Days	(150X150X149)	22500	300	13.33	
4	Drain	160929/D	26/05/2017	23/06/2017	28 Days	(150X150X148)	22500	498	22.13	20.88
5	Drain	160929/E	26/05/2017	23/06/2017	28 Days	(150X150X149)	22500	445	19.77	
6	Drain	160929/F	26/05/2017	23/06/2017	28 Days	(150X150X149)	22500	467	20.75	

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Quality Manager

A.E

Ground Floor, #35, 4th Main, 4th Stage, Next to Trinity Motors. Indl. Town, Basaveshwar Nagar, Bangalore – 560 079, Karnataka, India.
Phone: 91-08-23504236 Email: mail@alconctl.com

ALCON CTL TESTING PRIVATE LIMITED.

Ref: ACTPL/RDM 160929/2016 **Date: 28/06/2017**

TEST REPORT

Name of Client : **Sri.A.Chennareddy, Bangalore.**
Project* : Comprehensive Development of Roads & Drains in Ward No. 01& 02 Yelahanka Sub Division
Customer's reference : RDM – 160929
Grade of Concrete : M-20 Grade
Description of Test : Compressive strength of cubes.
Sample Received on : 01/06/2017

Sl. No	Location	Laboratory Identification mark	Date of Casting	Date of Testing	Age of Specimen	Dimension of Specimen in mm (L x B x D) in mm	Area of Specimen in mm^2	Crushing Load (KN)	Compression Strength (N/mm^2)	Avg. Compressive Strength (N/mm^2)
1	Drain	160929/A	31/05/2017	7/06/2017	7 Days	(150X150X148)	22500	333	14.80	14.71
2	Drain	160929/B	31/05/2017	7/06/2017	7 Days	(150X150X149)	22500	341	15.16	
3	Drain	160929/C	31/05/2017	7/06/2017	7 Days	(150X150X149)	22500	319	14.18	
4	Drain	160929/D	31/05/2017	28/06/2017	28 Days	(150X150X148)	22500	462	20.53	20.22
5	Drain	160929/E	31/05/2017	28/06/2017	28 Days	(150X150X149)	22500	457	20.31	
6	Drain	160929/F	31/05/2017	28/06/2017	28 Days	(150X150X149)	22500	446	19.82	

☑ *Satisfactory*
☐ *Non Satisfactory*

** As Furnished by the Customer*

Note:

1. The test results relate only to the item(s) tested.
2. Publication or reproduction of this report in any form other than by complete set of the whole report and in the language written is not permitted without the written approval.
3. Corrections / erasing invalidate the test report
4. Any anomaly / discrepancy in the test report should be brought to our notice within 7 days from the date of issue.

For **ALCON CTL TESTING PVT. LTD.**

Ashwini K, B.E., M.Tech
Quality Manager

ALCON CTL TESTING PRIVATE LIMITED BANGALORE

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